

NOVEMBER/DECEMBER 2025

**FEBC63/CEBC63 — IMMUNOLOGY
(ELECTIVE II)**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are macrophages?
2. Explain the role of NK cells.
3. What is meant by adjuvant?
4. Outline the classes of Immunoglobulins.
5. Define the term agglutination.
6. What are cytokines?
7. Define hypersensitivity.
8. Explain about Plastic surgery.
9. What are DNA vaccines?
10. Explain the principle of Ouchterlony technique.



SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Identify the mechanism of innate immunity

Or

- (b) Organize the steps involved in antibody mediated immunity.

12. (a) Identify the various subclasses of antibodies.

Or

- (b) Construct a flowchart on the production of monoclonal antibody.

13. (a) Examine the mechanism of precipitation.

Or

- (b) Analyze the functions of cytokines

14. (a) Simplify the mechanism of type IV hypersensitivity

Or

- (b) Examine the mechanism of graft vs host reaction.

15. (a) Organize the applications of RIA and, ELISA

Or

- (b) Identify the methodology in Immunoelectrophoresis.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the structure and functions of granulocytes

17. Assess the structural features of immunoglobulins.

18. Explain the classical pathway of complement.

19. Elaborate on the Mechanism of type I hypersensitivity.

20. Discuss on the Principle and applications of DNA vaccines.